



SEQUENCE LISTING

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TECH CENTER 1600/2500

<110> Rothschild, Max F.
Kim, Kwan Suk
Emnett, Rebecca S.

<120> Melanocortin-4 Receptor Gene and Use as a Genetic
Marker for Fat Content, Weight Gain, and/or Feed
Consumption in Animals

<130> rothshcild mc4r2

<140> 09/380,419

<141> 2000-07-24

<150> PCT/US99/16862

<151> 1999-07-26

<160> 26

<170> PatentIn Ver. 2.0

<210> 1

<211> 745

<212> DNA

<213> porcine

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<221> variation

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<223> G/A

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 Met Leu Val Ser Val Ser Asn Gly Ser Glu Thr Ile Ile Ile Thr Leu
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 65 70 75 80
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 Leu Gln Tyr His Asn Ile Met Thr Val Lys Arg Val Gly Ile Ser Ile
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 Ser Cys Ile Trp Ala Ala Cys Thr Val Ser Gly Ile Leu Phe Ile Ile
 130 135 140
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 Ala Arg Leu His Ile Lys Arg Ile Ala Val Leu Pro Gly Thr Gly Ala
 180 185 190
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 Ile Gly Val Phe Val Val Cys Trp Ala Pro Phe Phe Leu His Leu Ile
 210 215 220
 Phe Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe Met Ser
 225 230 235 240

His Phe Asn Leu Tyr Leu Ile Leu Ile Met Cys Asn Ser Ile Ile Asp
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Pro Leu Ile Tyr Ala Leu Arg Ser Gln Glu Leu Arg Lys Thr Phe Lys
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Glu Ile Ile Cys Cys Tyr Pro Leu Gly Gly Leu Cys Asp Leu Ser Ser
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65 70 75 80

Tyr Ala Leu Gln Tyr His Asn Ile Met Thr Val Lys Arg Val Gly Ile
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Ile Ile Ser Cys Ile Trp Ala Val Cys Thr Val Ser Gly Val Leu Phe
100 105 110

Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile Ile Cys Leu Ile Thr Val
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Phe Phe Thr Met Leu Ala Leu Met Ala Ser Leu Tyr Val His Met Phe
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Leu Met Ala Arg Leu His Ile Lys Arg Ile Ala Val Leu Pro Gly Thr
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Gly Thr Ile Arg Gln Gly Ala Asn Met Lys Gly Ala Ile Thr Leu Thr
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Ile Leu Ile Gly Val Phe Val Val Cys Trp Ala Pro Phe Phe Leu His
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 Met Ser His Phe Asn Leu Tyr Leu Ile Leu Ile Met Cys Asn Ser Ile
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<213> rat

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Asp Pro Leu Ile Tyr Ala
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